Date=06/07/2020
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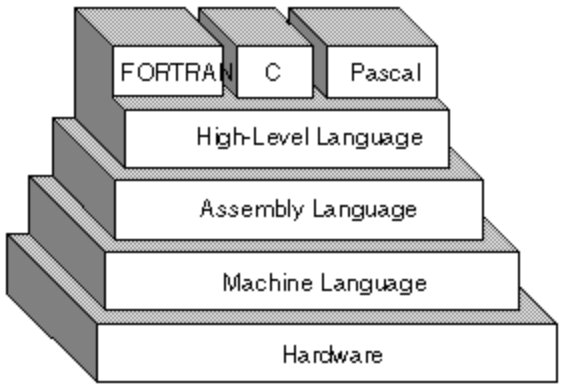
IN PREVIOUS LECTURE **(QUICK RECAP)** **Date-03/07/2020**	In today's Lecture **(Overview)**
We learned **Parts/Architecture** Of Websites	Introduction To Programming language
=What is **Full Stack** Developer? =What Happens When We **Search Any website or url** on browser? =What is **Dns**,**vertical scaling**, **horizontal scaling**,**Ipconfig command?**	What Is a **Compiler**?? What Is **python?** What is **REPL**?? What Is **Variables**?? What is **Data Types**?? What is the Use **Concatenate**?? Commands- **Print**

== Introduction Programming Language
A **programming language** is a **vocabulary** and set of grammatical rules for **instructing a computer** or computing device to perform specific tasks.
-Computer Understand only **0&1 Language** **(off&on)**-it is also known as **assembly language**
-We use HLL(High Level Language)
=python,java c#,cobol



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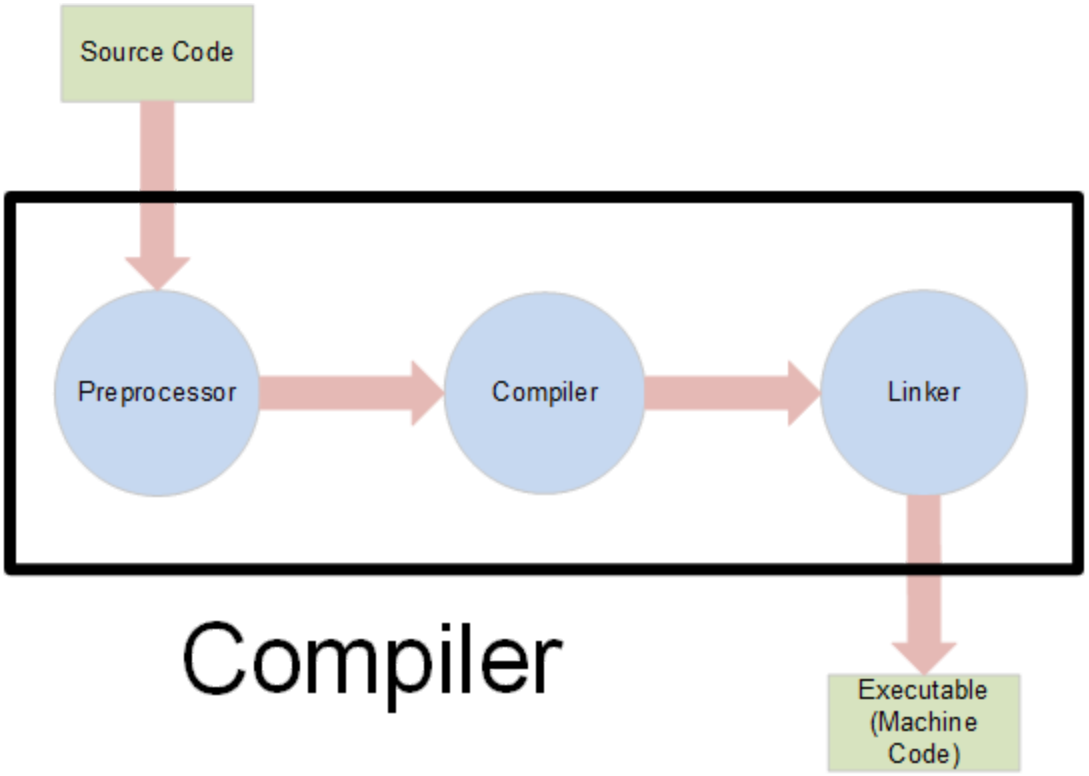
=What is **“Compiler”?**

-A **compiler** is a special program that “**processes statements”** written in a particular programming language and turns them into **machine language or "code" that a computer's processor** **Uses or Understands**



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Fact== -First Industry Language was Introduced by Denis Ritchie Which was Language C

==What is **Python??**

-Python Was Created By **Guido Van Russon**

-**Python** is a general “**purpose”** and “high level programming” language.

-Python Is Known as **“Swiss Knife”** Of Programming Language

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==What is **REPL??**

Read Evaluate Print Loop

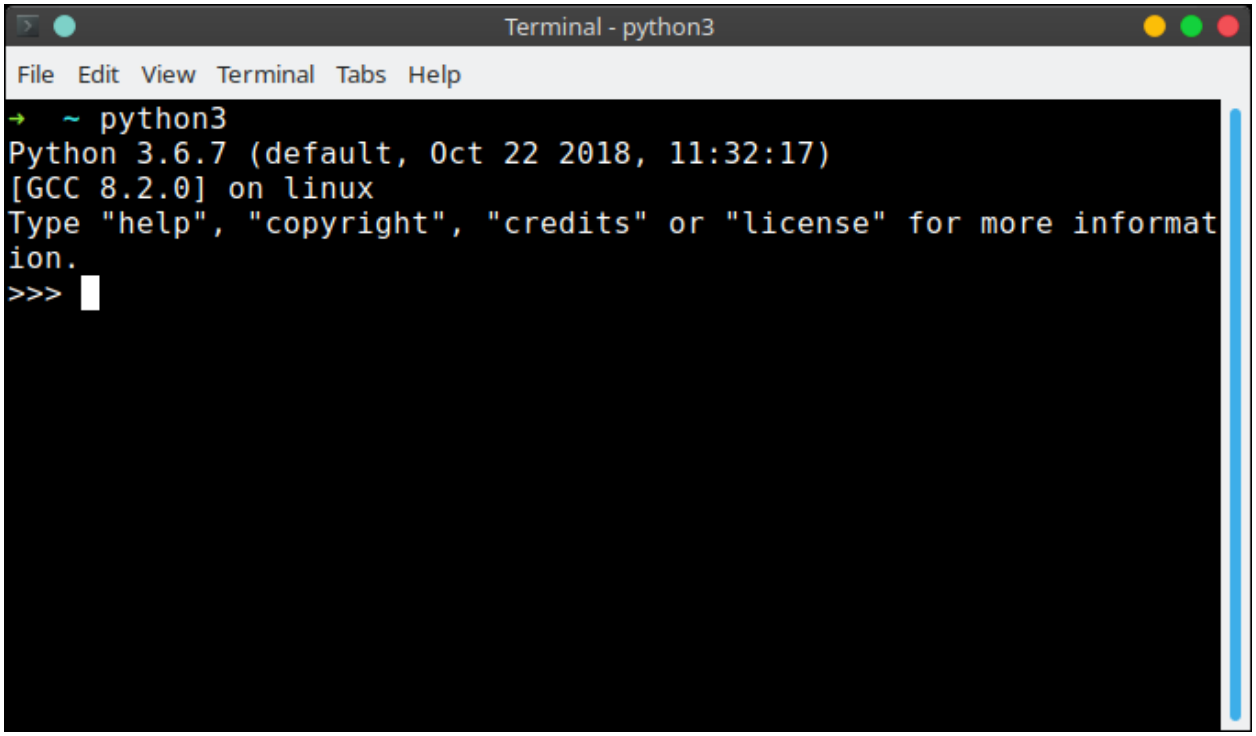
-1.**Read the user input (your Python commands).**

-2.**Evaluate your code (to work out what you mean).**

-3.**Print any results (so you can see the computer's response).**

-4.**Loop back to step 1 (to continue the conversation)**.

The computer tells you it's waiting for instructions by presenting you with either three chevrons (`>>>`) or a numbered prompt (`In [1]:`). You just type your commands and hit return for the computer to evaluate them.



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=What Is Variables??

-"**Variables"** are **data values** that can change when the user is asked a question

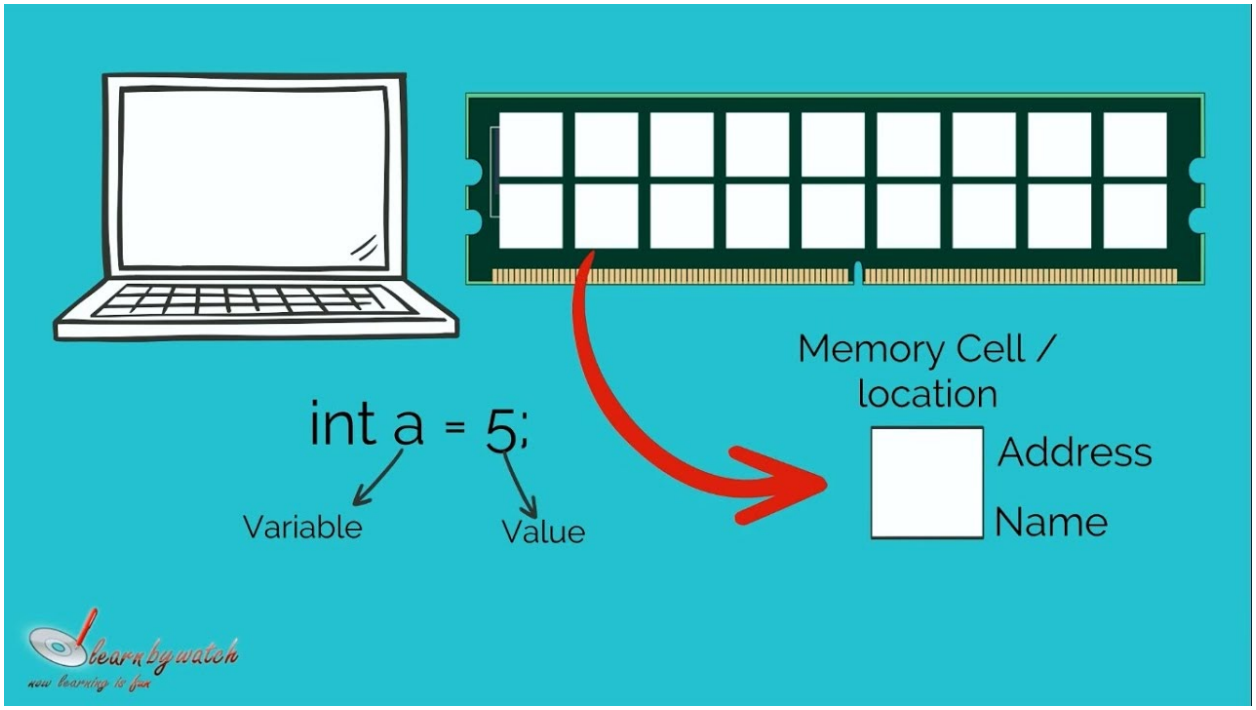
- A **variable** is a **memory location**

-Rule Of Variables=it must have to be start from a-z,A-Z _

=For exp- A=2, a=4, _=3

=In python left hand side will **always have a single value(variable)**

-To Know the Type, **type(varieble)** then it will show the type of variebles



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=What is **Data Types??**

-In computer science and computer **programming**, a **data type** or simply **type** is an **attribute of data** which tells the compiler or interpreter how the **programmer intends to use the data.**

Common data types

Data type:	Example value:
Integer	35462216
Floating-point	0.002756
Char	H
String	Hello, World!
Boolean	true

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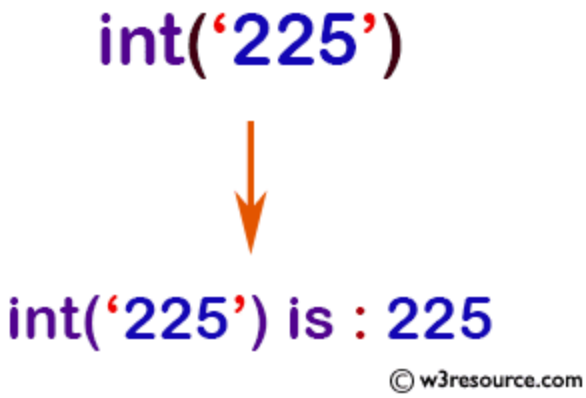
Types of Data Types Explained below

=int-function converts the specified value into an integer number.



=str-String literals can be enclosed by either double or single quotes,

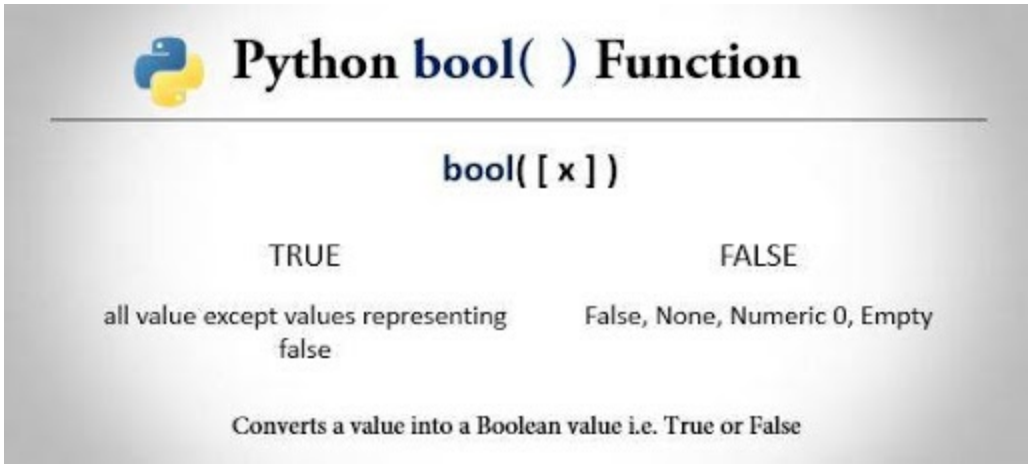
PythonExample.py

```
1   # Program published on https://beginnersbook.com
2   # Python program to reverse a given String
3   # Using a user-defined function
4   def reverse(str):
5       s = ""
6       for ch in str:
7           s = ch + s
8       return s
9
10
11  # given string
12  mystr = "BeginnersBook"
13  print("Given String: ", mystr)
14
15  # reversed string
16  print("Reversed String: ", reverse(mystr))
17
```

=float-This function converts the specified value into a floating point number.

```
Python 3.4.4 Shell
File  Edit  Shell  Debug  Options  Window  Help
Python 3.4.4 (v3.4.4:737efcadf5a6, Dec 20 2015, 19:28:18) [MSC v.1600 32 bit (In
tel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> int(23.34)
23
>>> int(-3.1415)
-3
>>> int(5.0)
5
>>> float(7)
7.0
>>> complex(7,5)
(7+5j)
>>> complex(7)
(7+0j)
>>>
```

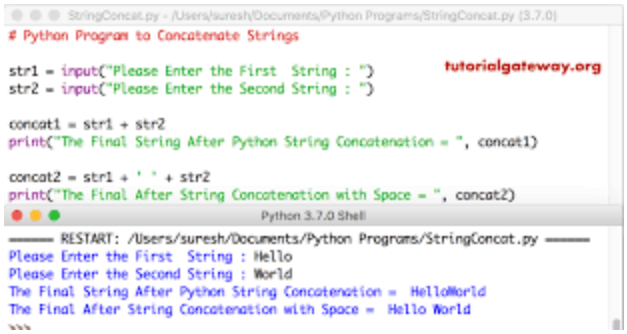
Boolean- This data type is either **"True or False."**



NOTE==**Anything under Double quote is str &**
Int+int=int

=What is the **Use Concatenate??**
=To create **Space** Between Variables
To add a space between them, **add a " "**
For Example

```
      a = "Hello"
b = "World"
c = a + " " + b
print(c)
```



For numbers, the `+` character works as a mathematical operator:

```
x = 5
y = 10
print(x + y)
```

If you try to combine a string and a number, Python will give you an error:

```
x = 5
y = "John"
print(x + y)
```

"Click Here" to Know More about it.

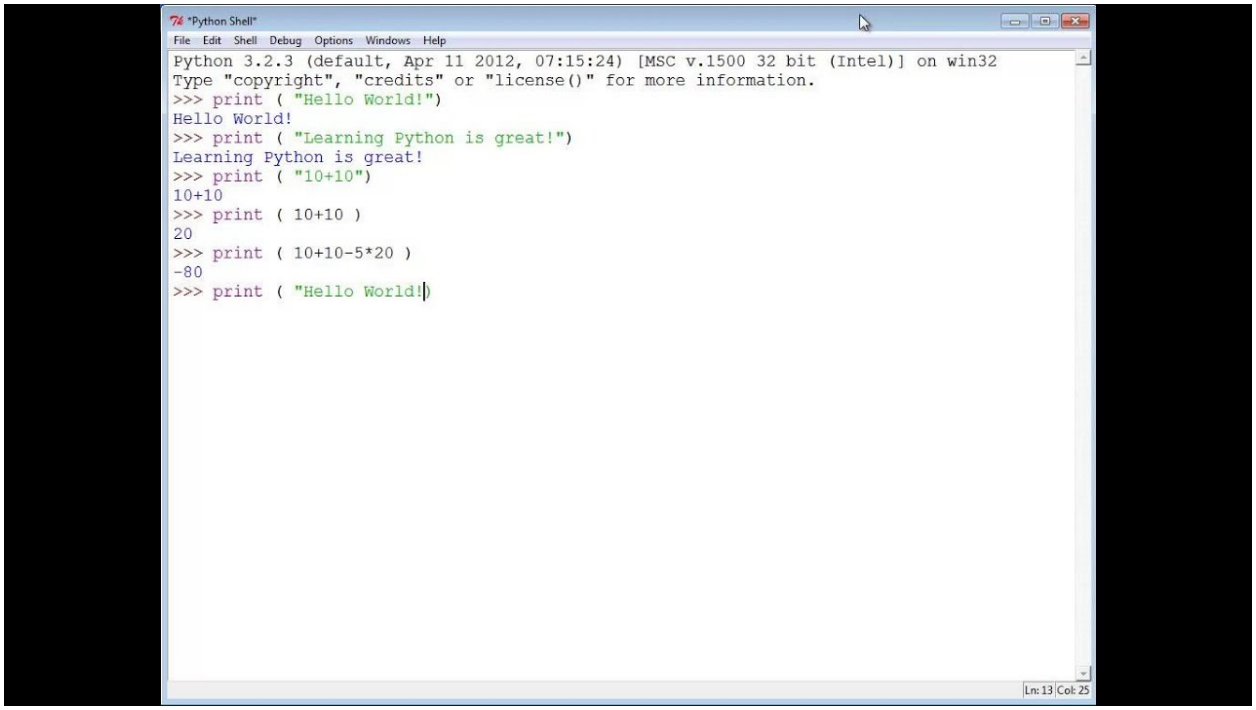
Command

==**Print**

The **print**() function **prints** the specified message to the screen,

-It Prints The word you type on it

-**For exp. print(“hello Corona”)**



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